

WGSL Monitoring - Maps

Tanimoto, Ross

to:

Stephen Tyahla

01/16/2011 02:51 PM

Cc:

"Namumnart, Wilma"

Show Details

History: This message has been forwarded.

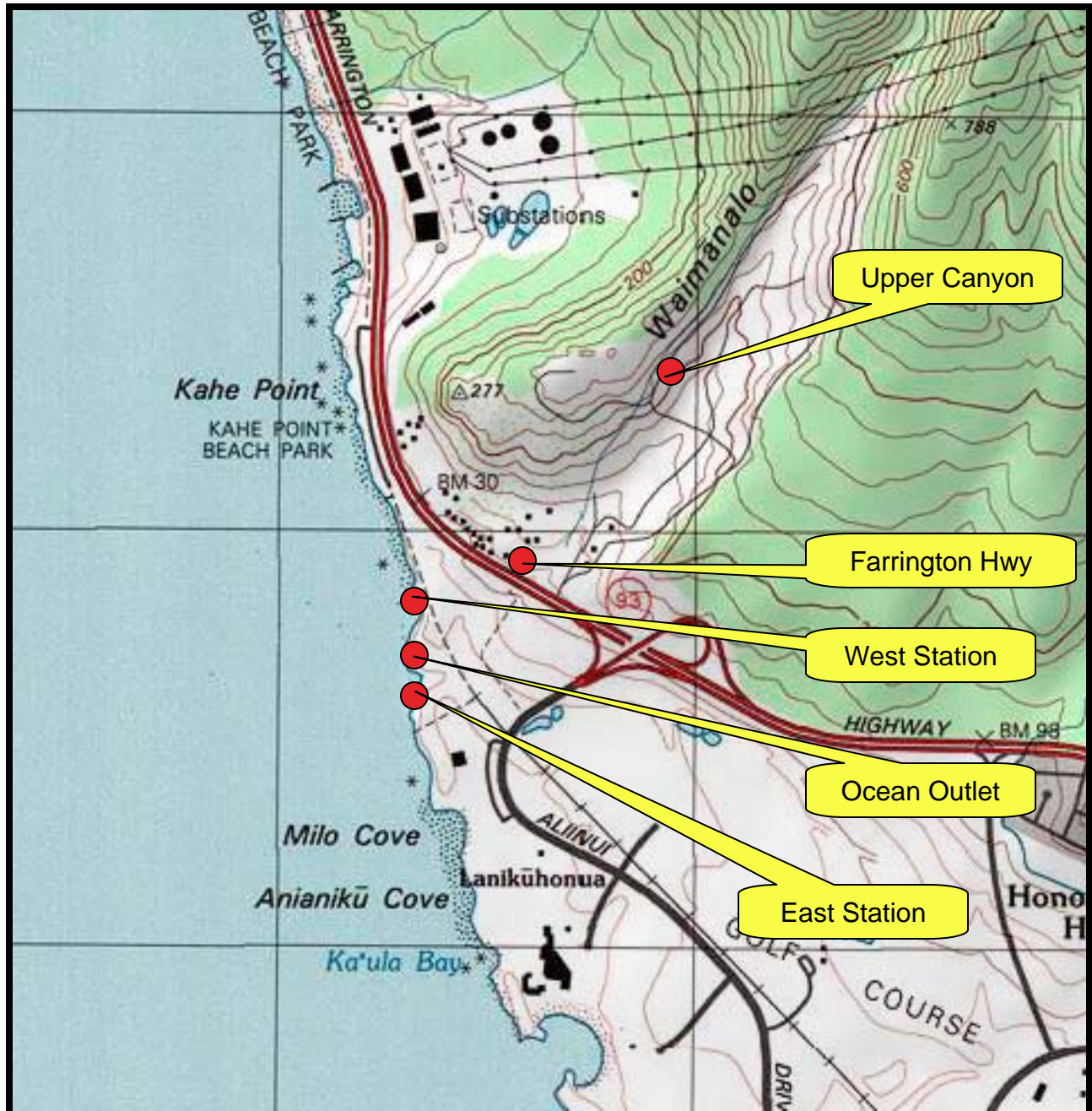
I'm informed to forward data to you. Attached, please find our sign and sampling maps.

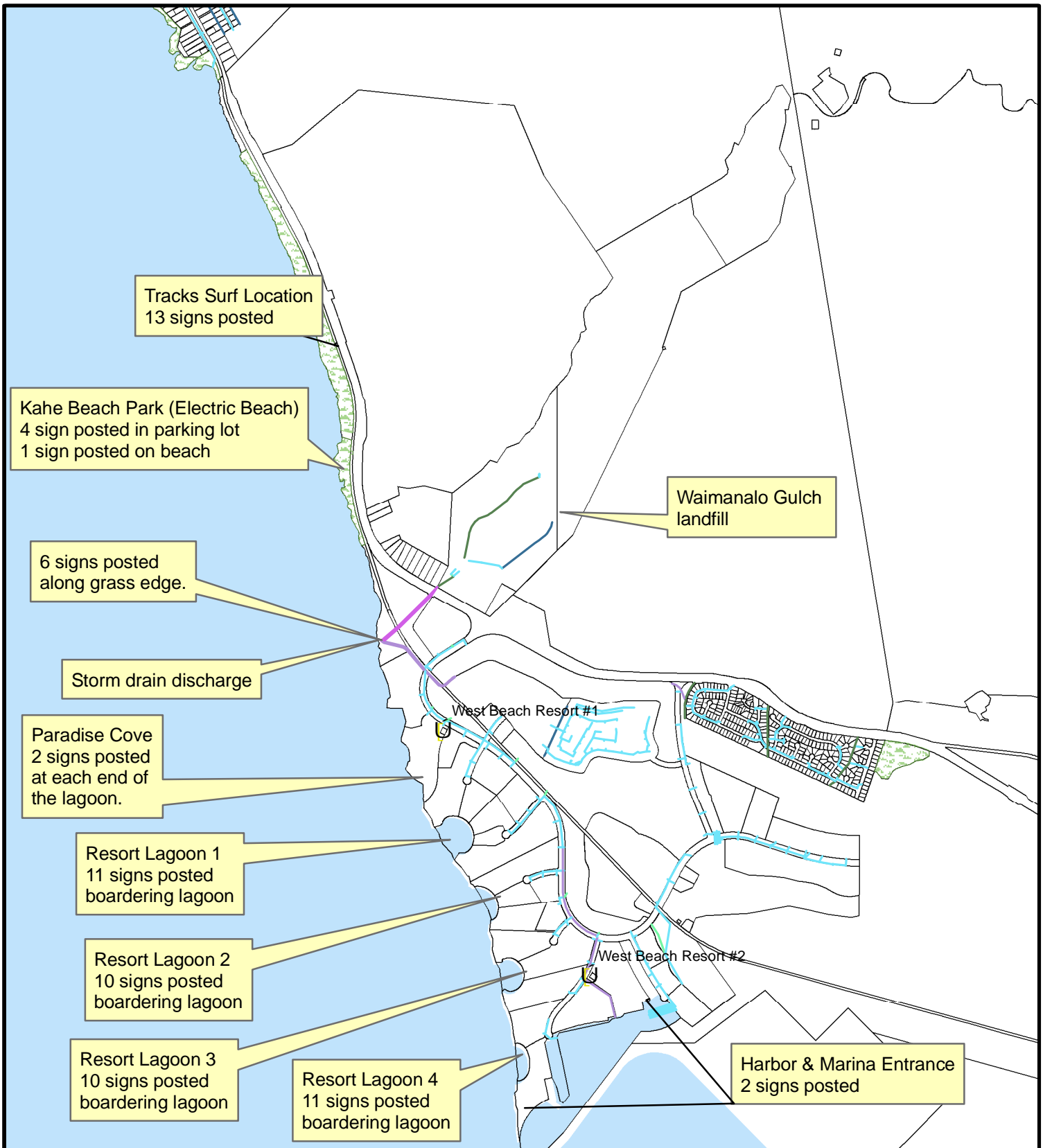
Please note that, per instructions from Mike Tsuji, DOH, we are exchanging the "Upper Canyon" sampling site with another site. When the updated maps is available, a copy will be forwarded to you.

If there are any questions, please don't hesitate.

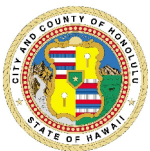
Monitoring Sites

Waimanalo Gulch Sanitary Landfill





**Revised 92-460 Farrington Hwy
Waimanalo Gulch 1/15/11
50 signs posted 9:10pm
15 additional signs posted 1/14/11
5 additional signs posted 1/15/11**



Prepared by: Dept. of Environmental Services
City & County of Honolulu
1000 Uluohia Street
Kapolei, Hawaii 96707

Copyright: City & County of Honolulu
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0 750 1,500 3,000 4,500 6,000
Feet

WGSL Monitoring - Bacti results

Tanimoto, Ross

to:

Stephen Tyahla

01/16/2011 02:53 PM

Cc:

"Namumnart, Wilma"

[Show Details](#)

History: This message has been replied to.

Attached, please find the bacti results. Other parameters will also be analyzed.

In the future, you will be included in our distribution email.

If there are any questions, please don't hesitate. Thanks!

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 14, 2011

Samples collected Thursday, January 13, 2011 (1st day):

Collection		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
<u>Station</u>	<u>Time</u>			
Upper Canyon	5:20 P.M.	5,900	20	< 0.1
Farrington Hwy.	5:45 P.M.	73,000	130	< 0.1
West Station	5:18 P.M.	2,000	58	33.4
Ocean Outlet	5:12 P.M.	68,000	150	< 0.1
East Station	5:25 P.M.	3,500	70	33.4

Weather: Overcast.

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 15, 2011

Samples collected Friday, January 14, 2011 (2nd day):

Collection		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
<u>Station</u>	<u>Time</u>			
Upper Canyon	1:43 P.M.	8,200	290	0.1
Farrington Hwy.	1:01 P.M.	1.1 X 10 ⁵	130	< 0.1
West Station	12:48 P.M.	400	18	34.2
Ocean Outlet	2:43 P.M.	9.8 X 10 ⁴	130	< 0.1
East Station	12:30 P.M.	1,200	46	33.7

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl-β-D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 16, 2011

Samples collected Saturday, January 15, 2011 (3rd day):

<u>Station</u>	<u>Collection</u>		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
	<u>Time</u>				
Upper Canyon	9:00 A.M.		4,300	6	< 0.1
Farrington Hwy.	8:22 A.M.		39,000	100	< 0.1
West Station	8:05 A.M.		500	44	32.9
Ocean Outlet	7:53 A.M.		47,000	230	< 0.1
East Station	7:25 A.M.		700	24	31.9

Weather: Sunny.

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

Revised Monitoring Map

Tanimoto, Ross

to:

Steven.chang, Stephen Tyahla, michael.tsuji, watson.okubo

01/16/2011 03:37 PM

Cc:

"Ng, Earl", "Toyota, Lesley", "Tenno, Kenneth", "Baginski, James", "Namumnart, Wilma", "Whelan, Joseph", "Owens, Markus", "Steinberger, Timothy E", "Lanuevo, Manuel S"

Show Details

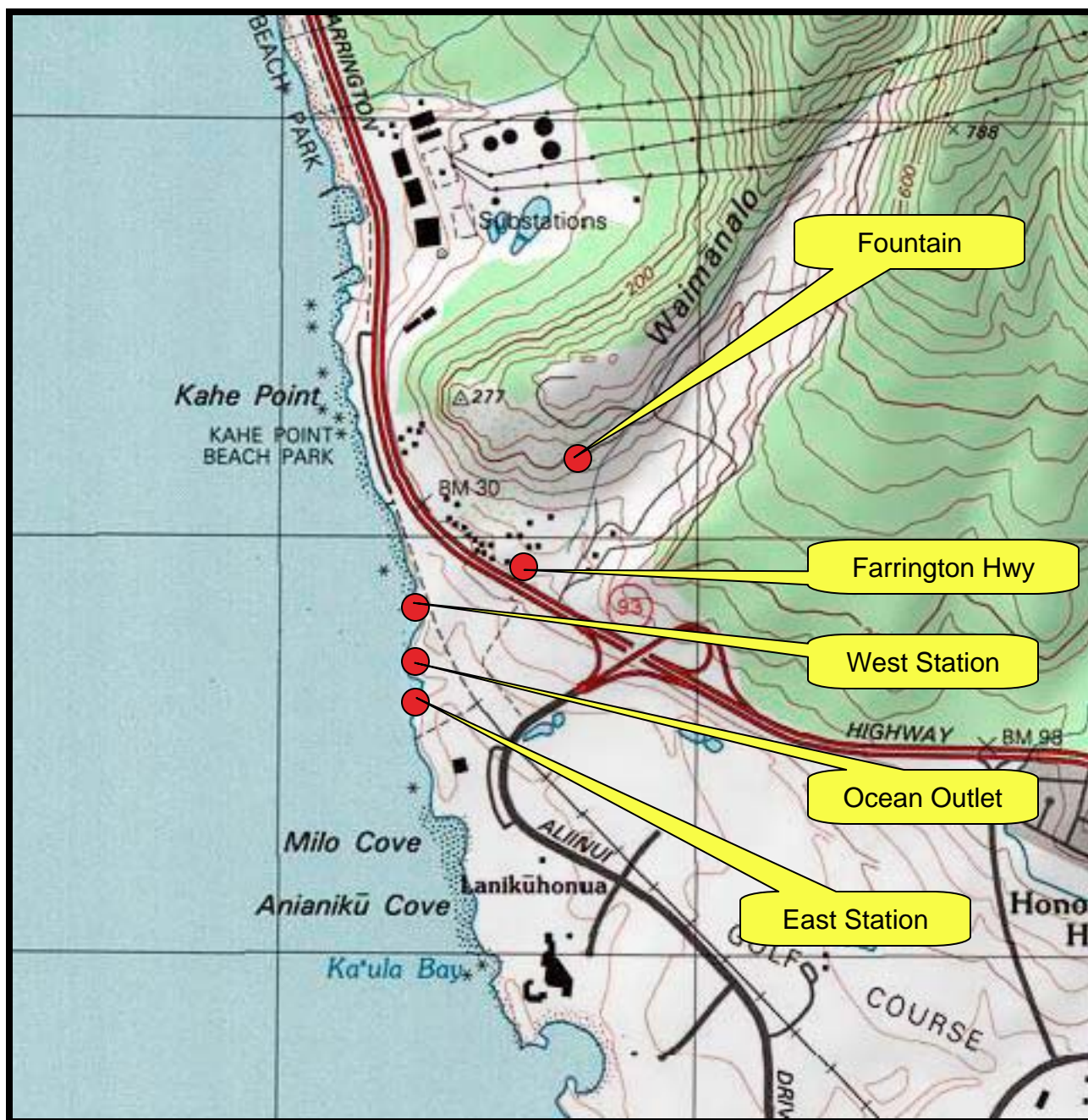
<<Waimanalo Gulch Sanitary Landfill Monitoring Map rev 1.pdf>>

Upper Canyon Station was dry. Note new station - Fountain. Locations are relative.

Monitoring Sites

Waimanalo Gulch Sanitary Landfill

1/16/11





WQSL Bacteriological Monitoring Report for 1-17-11

Tanimoto, Ross to: michael.tsuji, Steven.chang,
watson.okubo, Stephen Tyahla

01/17/2011 01:25 PM

Cc: "Whelan, Joseph", "Steinberger, Timothy E", "Lanuevo,
Manuel S", "Owens, Markus", "Ng, Earl", "Toyota, Lesley",
"Namumnart, Wilma"

From: "Tanimoto, Ross" <rtanimoto@honolulu.gov>

To: <michael.tsuji@doh.hawaii.gov>, <Steven.chang@doh.hawaii.gov>,
<watson.okubo@doh.hawaii.gov>, Stephen Tyahla/R9/USEPA/US@EPA

Cc: "Whelan, Joseph" <jwhelan1@wm.com>, "Steinberger, Timothy E"
<tsteinberger@honolulu.gov>, "Lanuevo, Manuel S" <mlanuevo@honolulu.gov>,
"Owens, Markus" <mowens@honolulu.gov>, "Ng, Earl" <eng@honolulu.gov>, "Toyota,

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 17, 2011

Samples collected Sunday, January 16, 2011 (4th day):

<u>Station</u>	<u>Collection</u>		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
	<u>Time</u>				
Fountain	9:57 A.M.		2,400	73	1.0
Farrington Hwy.	9:05 A.M.		19,000	150	0.1
West Station	8:25 A.M.		840	20	33.8
Ocean Outlet	7:50 A.M.		39,000	170	5.0
East Station	7:36 A.M.		130	9	34.2

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

WGSL monitoring data

Toyota, Lesley

to:

Steven.chang, Stephen Tyahla, michael.tsuji, watson.okubo

01/18/2011 07:15 PM

Cc:

"Whelan, Joseph", "Namumnart, Wilma", "Tanimoto, Ross", "Fujihara, Amy Y"

Show Details

History: This message has been replied to.

Hi Steven, Stephen, Watson and Mike cc Joe, Wilma and Ross:

FYI: We are compiling and going over the monitoring data and maps for the past days to make sure everyone has all of the data. We will be emailing data to those who may not have received it on the first round. We will do our best not to re-send any data/maps to previous recipients, unless requested.

Please let me know if any questions. Thanks!

Lesley Toyota

Division of Environmental Quality

Department of Environmental Services

City and County of Honolulu

Ph (808) 768-3254



WGSL Bacteriological Monitoring Report for 1-18-11

Tanimoto, Ross to: Steven.chang, Stephen Tyahla,
michael.tsuji, watson.okubo

01/18/2011 03:51 PM

Cc: "Whelan, Joseph", "Lanuevo, Manuel S", "Namumnart,
Wilma", "Ng, Earl", "Toyota, Lesley"

From: "Tanimoto, Ross" <rtanimoto@honolulu.gov>

To: <Steven.chang@doh.hawaii.gov>, Stephen Tyahla/R9/USEPA/US@EPA,
<michael.tsuji@doh.hawaii.gov>, <watson.okubo@doh.hawaii.gov>

Cc: "Whelan, Joseph" <jwhelan1@wm.com>, "Lanuevo, Manuel S"
<mlanuevo@honolulu.gov>, "Namumnart, Wilma" <WNamumnart@honolulu.gov>,
"Ng, Earl" <eng@honolulu.gov>, "Toyota, Lesley" <ltoyota@honolulu.gov>

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 18, 2011

Samples collected Monday, January 17, 2011 (5th day):

Collection		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
<u>Station</u>	<u>Time</u>			
Fountain	10:57 A.M.	2,300	30	1.2
*Farrington Hwy.	10:14 A.M.	96,000	80	0.3
West Station	9:26 A.M.	110	10	34.3
*Ocean Outlet	8:55 A.M.	3,900	10	30.7
East Station	8:26 A.M.	31	9	34.6

* Pumping operations to Ocean Outlet terminated on 1/16. What was sampled was the residue that had ponded at the respective sampling sites.

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

WGSL Monitorig - Sedimentation Basin

Tanimoto, Ross

to:

Steven.chang, watson.okubo, michael.tsuji, Stephen Tyahla, Bret Moxley

01/19/2011 01:23 PM

Cc:

"Steinberger, Timothy E", "Lanuevo, Manuel S", "Namumnart, Wilma", "Ng, Earl", "Toyota, Lesley",

"Tenno, Kenneth"

Show Details

History: This message has been forwarded.

Here is what we got so far from the Sedimentation basin..please note the date sampled. We continue to get results and plan to populate the blanks...so this sheet will be amended over time.

Results of Analyses - Waimanalo Gulch Sanitary Landfill

Sampling Date: 1/11/2011

Parameter	Reporting Units	Sedimentation Pond	East Station	Ocean Outlet	West Station	Farrington Highway	Upper Canyon	Fountain
Biochemical Oxygen Demand (5-day)	mg/l	182						
Total Suspended Solids	mg/l	11,400						
Chemical Oxygen Demand	ug/l	667,000						

Toxicity results sent in previous report.

Note: Reporting units for COD is in ug/l as requested by DOH on 1/14/11.

Note: See e-mail correction from Lesley Toyota later on 19 Jan 2011; corrects that this sample was actually from "South Pond of Cell E6, and not the Sedimentation Pond."
S. F. Tyahla

WGSL Monitoring: Changes in two of the bacteria monitoring points

Toyota, Lesley

to:

Tanimoto, Ross, Steven.chang, watson.okubo, michael.tsuji, Stephen Tyahla, Bret Moxley

01/19/2011 01:59 PM

Cc:

"Steinberger, Timothy E", "Lanuevo, Manuel S", "Namumnart, Wilma", "Ng, Earl", "Tenno, Kenneth",

"Fujihara, Amy Y"

Show Details

We had to sample from two slightly different points yesterday and today for the daily bacteria samples:

Farrington Highway site: For yesterday (Jan 18) and today (Jan 19), the bacti sample was taken from a site approximately 10 yards makai of the original sampling site. The samples were taken from the concrete catchbasin prior to the discharge to the storm culvert. The original site could not be accessed due to workers clearing the area.

Ocean Outlet site: For today (Jan 19), the bacti sample was taken from the "Sedimentation Pond" (by the WMI offices) instead of the "Ocean Outlet". This is because there is nothing to sample at the Ocean Outlet site; there is no flow coming out of that original site.

An updated map will be provided.

Please let us know if you should have any questions. Thanks!

Updated Map and Correction: Changes in two of the bacteria monitoring points

Toyota, Lesley

to:

Tanimoto, Ross, Steven.chang, watson.okubo, michael.tsuji, Stephen Tyahla, Bret Moxley

01/19/2011 02:23 PM

Cc:

"Steinberger, Timothy E", "Lanuevo, Manuel S", "Namumnart, Wilma", "Ng, Earl", "Tenno, Kenneth",

"Fujihara, Amy Y"

Show Details

History: This message has been forwarded.

[Attached is the updated monitoring map.](#)

[Correction:](#) The "Sedimentation Pond" site is being done in lieu of the "Gill's Fountain" site; this was done because the flows from "Gill's Fountain" are diminishing.

[So no bacti sampling could be done at "Gill's Fountain" or "Ocean Outlet" for today.](#)

From: Toyota, Lesley

Sent: Wednesday, January 19, 2011 12:00 PM

To: Tanimoto, Ross; 'Steven.chang@doh.hawaii.gov'; 'watson.okubo@doh.hawaii.gov'; 'michael.tsuji@doh.hawaii.gov'; ' (Tyahla.stephen@epa.gov)'; 'Moxley.Bret@epamail.epa.gov'

Cc: Steinberger, Timothy E; Lanuevo, Manuel S; Namumnart, Wilma; Ng, Earl; Tenno, Kenneth; Fujihara, Amy Y

Subject: WGSL Monitoring: Changes in two of the bacteria monitoring points

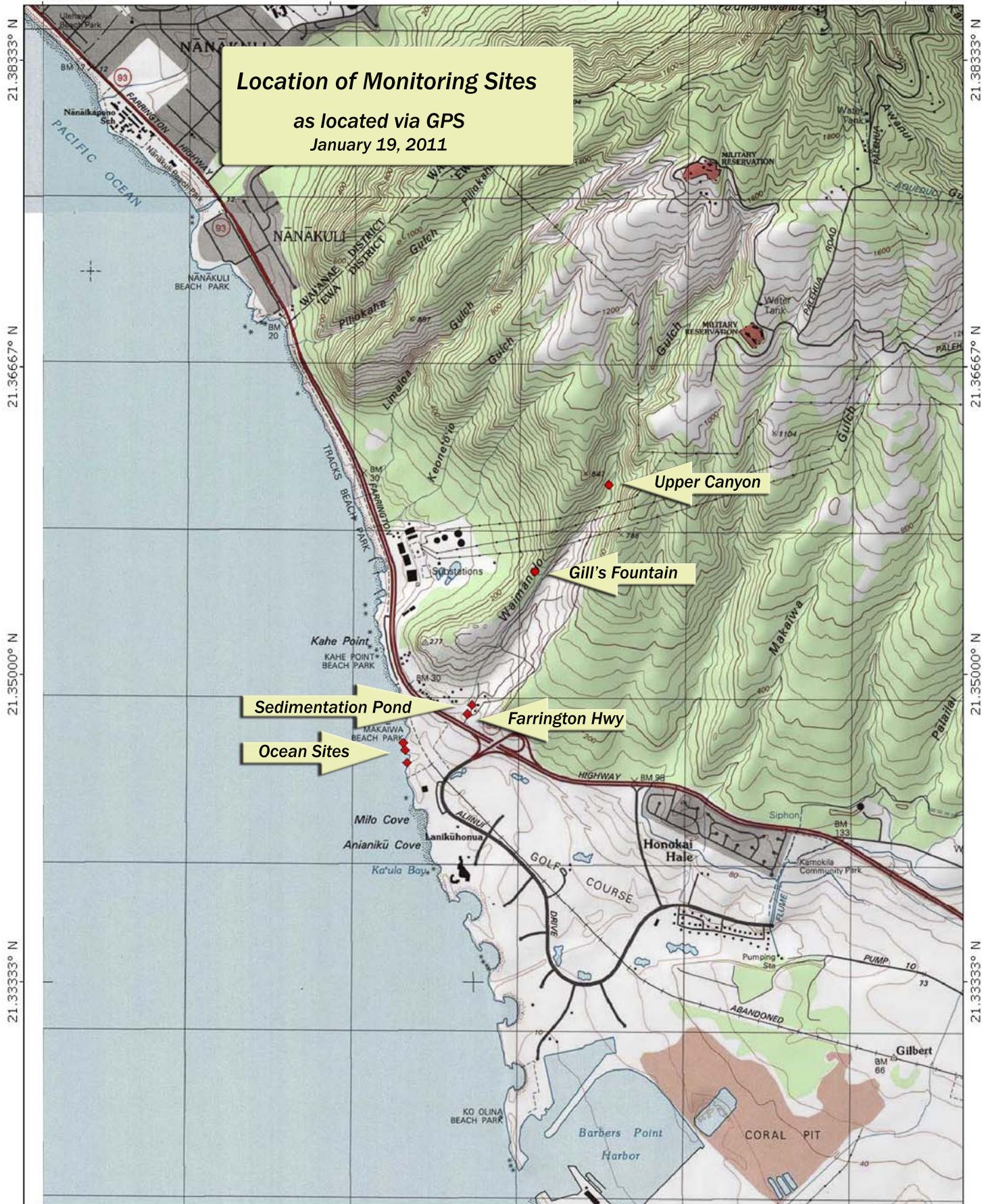
We had to sample from two slightly different points yesterday and today for the daily bacteria samples:

Farrington Highway site: For yesterday (Jan 18) and today (Jan 19), the bacti sample was taken from a site approximately 10 yards makai of the original sampling site. The samples were taken from the concrete catchbasin prior to the discharge to the storm culvert. The original site could not be accessed due to workers clearing the area.

Ocean Outlet site: For today (Jan 19), the bacti sample was taken from the "Sedimentation Pond" (by the WMI offices) instead of the "Ocean Outlet". This is because there is nothing to sample at the Ocean Outlet site; there is no flow coming out of that original site.

An updated map will be provided.

Please let us know if you should have any questions. Thanks!



CORRECTION: WGS� Monitoring - Not the Sedimentation Basin

Toyota, Lesley

to:

Tanimoto, Ross, Steven.chang, watson.okubo, michael.tsuji, Stephen Tyahla, Bret Moxley

01/19/2011 02:28 PM

Cc:

"Steinberger, Timothy E", "Lanuevo, Manuel S", "Namumnart, Wilma", "Ng, Earl", "Tenno, Kenneth",

"Fujihara, Amy Y"

Show Details

Sorry folks...another correction!

Confirmed with WMI today. This data sent to you earlier today was sampled on January 11, 2011 from the **South Pond of Cell E6**, and not the Sedimentation Pond.

This was data taken to monitor the cell pond from which hauler trucks were pumping on that day.

Please let us know if you should have any questions. Thanks!

From: Tanimoto, Ross

Sent: Wednesday, January 19, 2011 11:24 AM

To: Steven.chang@doh.hawaii.gov; watson.okubo@doh.hawaii.gov; michael.tsuji@doh.hawaii.gov; (Tyahla.stephen@epa.gov); Moxley.Bret@epamail.epa.gov

Cc: Steinberger, Timothy E; Lanuevo, Manuel S; Namumnart, Wilma; Ng, Earl; Toyota, Lesley; Tenno, Kenneth

Subject: WGS� Monitorig - Sedimentation Basin

Here is what we got so far from the Sedimentation basin..please note the date sampled. We continue to get results and plan to populate the blanks...so this sheet will be amended over time.

Results of Analyses - Waimanalo Gulch Sanitary Landfill

Sampling Date: 1/11/2011

Parameter	Reporting Units	Sedimentation Pond	East Station	Ocean Outlet	West Station	Farrington Highway	Upper Canyon	Fountain
Biochemical Oxygen Demand (5-day)	mg/l	182						
Total Suspended Solids	mg/l	11,400						
Chemical Oxygen Demand	ug/l	667,000						

Toxicity results sent in previous report.

Note: Reporting units for COD is in ug/l as requested by DOH on 1/14/11.

WGSL Bacteriological Monitoring Report for January 18, 2011 (sixth day)

Toyota, Lesley

to:

Steven.chang, watson.okubo, michael.tsuji, Stephen Tyahla, Bret Moxley

01/19/2011 02:35 PM

Cc:

"Namumnart, Wilma", "Ng, Earl", "Fujihara, Amy Y", "Tanimoto, Ross", "Whelan, Joseph"

Show Details

History: This message has been forwarded.

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 19, 2011

Samples collected Tuesday, January 18, 2011 (6th day):

Collection		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
<u>Station</u>	<u>Time</u>			
Fountain	11:17 A.M.	700	6	1.4
Farrington Hwy.	10:14 A.M.	120,000	720	0.1
West Station	8:20 A.M.	31	10	34.3
Ocean Outlet	7:47 A.M.	4,400	4	32.3
East Station	7:20 A.M.	250	20	34.1

Weather: Overcast

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

WGSL Signing Map - confirmation and revision 1/20/11

Toyota, Lesley

to:

Steven.chang, watson.okubo, michael.tsuji, Stephen Tyahla, Bret Moxley

01/20/2011 02:18 PM

Cc:

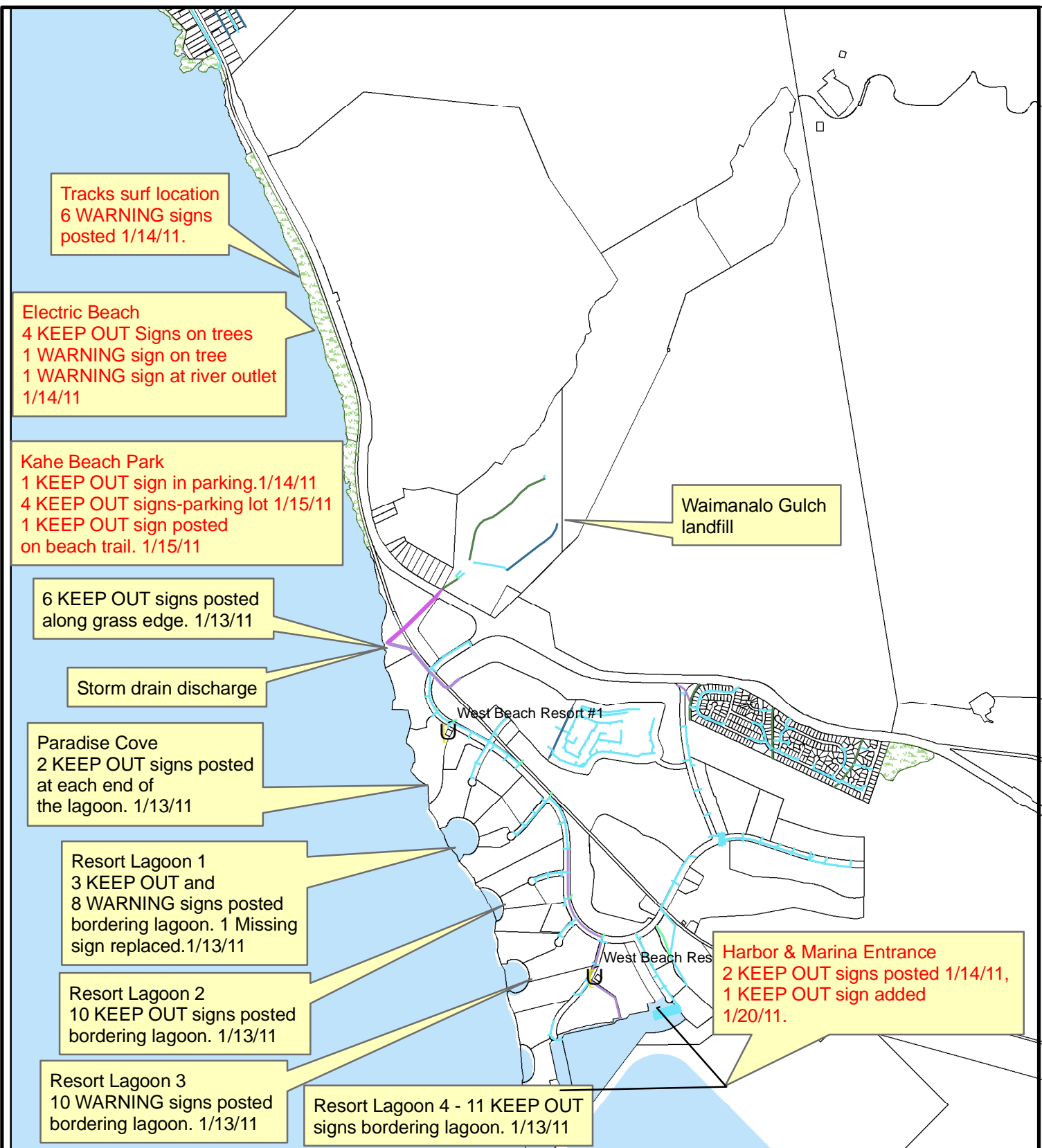
"Whelan, Joseph", "Namumnart, Wilma", "Tanimoto, Ross", "Ng, Earl", "Fujihara, Amy Y"

Show Details

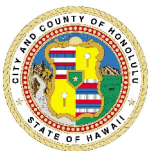
History: This message has been replied to.

Personnel went out to check signs and added one additional sign today.

Number of signs at each site, type of signs (KEEP OUT or WARNING) and dates of the original posting are shown.

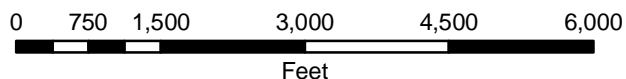


92-460 Farrington Hwy-Waimanalo Gulch-revised 1/20/11
50 signs posted 1/13/11, 15 additional signs posted 1/14/11,
5 additional signs posted 1/15/11, 1 additional sign posted 1/20/11



Prepared by: Dept. of Environmental Services
 City & County of Honolulu
 1000 Uluohia Street
 Kapolei, Hawaii 96707

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WGSL Discharge Bacteriological Monitoring Report for January 19, 2011 (seventh day)

Steven.chang, watson.okubo,
Toyota, Lesley to: michael.tsuji, Stephen Tyahla, Bret Moxley 01/20/2011 02:21 PM

Cc: "Namumnart, Wilma", "Ng, Earl", "Fujihara, Amy Y",
"Tanimoto, Ross", "Whelan, Joseph"

From: "Toyota, Lesley" <ltoyota@honolulu.gov>

To: <Steven.chang@doh.hawaii.gov>, <watson.okubo@doh.hawaii.gov>,
<michael.tsuji@doh.hawaii.gov>, Stephen Tyahla/R9/USEPA/US@EPA, Bret
Moxley/R9/USEPA/US@EPA

Cc: "Namumnart, Wilma" <WNamumnart@honolulu.gov>, "Ng, Earl" <eng@honolulu.gov>,
"Fujihara, Amy Y" <afujihara@honolulu.gov>, "Tanimoto, Ross"
<rtanimoto@honolulu.gov>, "Whelan, Joseph" <jwhelan1@wm.com>

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 20, 2011

Samples collected Wednesday, January 19, 2011 (7th day):

<u>Station</u>	<u>Collection</u>		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
	<u>Time</u>				
Sedimentation Pond	10:05 A.M.		<600	42	0.1
Farrington Hwy. (standing water)	9:20 A.M.		190,000	100	0.1
West Station	8:35 A.M.		24	3	34.4
East Station	7:48 A.M.		44	11	34.1

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.



WGSL Bacteriological Monitoring Report for January 20, 2011 (eighth day)

Toyota, Lesley to: Stephen Tyahla, Steven.chang,
Okubo, Watson T, Tsuji, Michael, Bret Moxley, Katherine Baylor 01/21/2011 02:28 PM
Cc: "Fujihara, Amy Y", "Whelan, Joseph", "Namumnart, Wilma",
"Tanimoto, Ross", "Ng, Earl"

From: "Toyota, Lesley" <ltoyota@honolulu.gov>
To: Stephen Tyahla/R9/USEPA/US@EPA, <Steven.chang@doh.hawaii.gov>, "Okubo, Watson T" <watson.okubo@doh.hawaii.gov>, "Tsuji, Michael" <Michael.Tsuji@doh.hawaii.gov>, Bret Moxley/R9/USEPA/US@EPA, Katherine
Cc: "Fujihara, Amy Y" <afujihara@honolulu.gov>, "Whelan, Joseph" <jwhelan1@wm.com>, "Namumnart, Wilma" <WNamumnart@honolulu.gov>, "Tanimoto, Ross" <rtanimoto@honolulu.gov>, "Ng, Earl" <eng@honolulu.gov>

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 21, 2011

Samples collected Thursday, January 20, 2011 (8th day):

Collection		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
<u>Station</u>	<u>Time</u>			
Sedimentation Pond	9:57 A.M.	44	29	0.1
Farrington Hwy. (standing water)	9:30 A.M.	330,000	30	0.1
West Station	8:30 A.M.	6	3	34.5
Ocean Outlet	No flow			
East Station	7:33 A.M.	42	3	34.2

Weather: Sunny

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.



WGSL Discharge Monitoring Report for January 21, 2011 (ninth day)

Steven.chang, Okubo, Watson T,

Toyota, Lesley to: Tsuji, Michael, Stephen Tyahla,
Katherine Baylor, Bret Moxley

01/22/2011 02:16 PM

Cc: "Fujihara, Amy Y", "Whelan, Joseph", "Namumnart, Wilma",
"Tanimoto, Ross", "Ng, Earl"

From: "Toyota, Lesley" <ltoyota@honolulu.gov>

To: <Steven.chang@doh.hawaii.gov>, "Okubo, Watson T"
<watson.okubo@doh.hawaii.gov>, "Tsuji, Michael" <Michael.Tsuji@doh.hawaii.gov>,
Stephen Tyahla/R9/USEPA/US@EPA, Katherine Baylor/R9/USEPA/US@EPA, Bret

Cc: "Fujihara, Amy Y" <afujihara@honolulu.gov>, "Whelan, Joseph"
<jwhelan1@wm.com>, "Namumnart, Wilma" <WNamumnart@honolulu.gov>,
"Tanimoto, Ross" <rtanimoto@honolulu.gov>, "Ng, Earl" <eng@honolulu.gov>

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 22, 2011

Samples collected Friday, January 21, 2011 (9th day):

Collection		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
<u>Station</u>	<u>Time</u>			
Sedimentation Pond	10:30 A.M.	91	16	0.1
Farrington Hwy. (standing water)	9:30 A.M.	7.1 x 10 ⁵	130	0.1
West Station	8:50 A.M.	8	4	34.2
Ocean Outlet	No Flow			
East Station	7:52 A.M.	50	14	34.6

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl-β-D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

Report Attached: WGSL Bacteriological Monitoring Report for January 22, 2011 (tenth day)

Toyota, Lesley

to:

Stephen Tyahla, Katherine Baylor, Bret Moxley, Steven.chang, watson.okubo, michael.tsuji

01/24/2011 12:05 PM

Cc:

"Namumnart, Wilma", "Whelan, Joseph", "Tanimoto, Ross", "Ng, Earl", "Fujihara, Amy Y"

Show Details

Everyone:

I apologize...the report was not attached or not forwarded, for some reason. Thank you for noticing, Watson!

From: Toyota, Lesley

Sent: Sunday, January 23, 2011 12:58 PM

To: 'Tyahla.Stephen@epamail.epa.gov'; 'Baylor.Katherine@epamail.epa.gov'; 'Moxley.Bret@epamail.epa.gov'; 'Steven.chang@doh.hawaii.gov'; 'watson.okubo@doh.hawaii.gov'; 'michael.tsuji@doh.hawaii.gov'

Cc: Namumnart, Wilma; Whelan, Joseph; Tanimoto, Ross; Ng, Earl; Fujihara, Amy Y

Subject: WGSL Bacteriological Monitoring Report for January 22, 2011 (tenth day)

From: Tenno, Kenneth

To: Tanimoto, Ross

Cc: Toyota, Lesley; Shizumura, Lyle; Lucero, Salvacion (slucero@honolulu.gov)

Sent: Sun Jan 23 11:53:11 2011

Subject: WGSL Bacteriological Monitoring Report for 1-23-11

<<Waimanalo Gulch SL Monitoring 1-22-11.pdf>>

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 23, 2011

Samples collected Saturday, January 22, 2011 (10th day):

<u>Station</u>	<u>Collection</u>		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
	<u>Time</u>				
West Station	7:52 A.M.		23	2	34.2
Ocean Outfall	No flow				
East Station	7:21 A.M.		41	6	34.1

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.

WGSL Bacteriological Monitoring Report for January 23, 2011 (eleventh day) - Final Day
Toyota, Lesley

to:

Steven.chang, watson.okubo, michael.tsuji, Stephen Tyahla, Katherine Baylor, Bret Moxley
01/24/2011 12:58 PM

Cc:

"Namumnart, Wilma", "Ng, Earl", "Tanimoto, Ross", "Fujihara, Amy Y", "Whelan, Joseph"
Show Details

This report contains the bacteriological results for the eleventh and final day of monitoring

<<Waimanalo Gulch SL Monitoring 1-23-11.pdf>>

Results of Analyses

Waimanalo Gulch Sanitary Landfill Monitoring

January 24, 2011

FINAL REPORT

Samples collected Sunday, January 23, 2011 (11th day):

Collection		<u>Enterococci</u> ¹	<u>C. perfringens</u> ²	<u>Salinity</u>
<u>Station</u>	<u>Time</u>			
West Station	8:30 A.M.	8	3	34.3
Ocean Outlet	No flow			
East Station	7:35 A.M.	1	9	34.2

Weather: Sunny.

¹ EPA-821-12-06-009, Method 1600: Enterococci in Water by Membrane-Filtration using Membrane-Enterococcus Indoxyl- β -D-glucoside agar (mEI) July 2006.

² Bisson, J.W., Cabelli, V.J., "Membrane Filter Enumeration Method for *Clostridium perfringens*," Applied and Environmental Microbiology, Jan 1978; Armon, R., Payment, P., "A Modified mCP Medium for Enumerating *C. perfringens* from Water Samples," Canadian Journal of Microbiology, 1988.